

1                   2. (Unchanged) The method according to claim 1, wherein two or more of said  
2 Internet resources are prefetched substantially in parallel.

1                   3. (Unchanged) The method according to claim 1, wherein said step of  
2 prefetching said Internet resources based on said estimated round trip time is performed only for  
3 Internet resources associated with origin servers that have been previously accessed and said  
4 method further comprising the step of prefetching all Internet resources associated with servers  
5 that have not been previously accessed.

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1                   4. (Unchanged) The method according to claim 1, wherein said estimated round  
2 trip time for each Internet resource is based on average access time statistics for the  
3 corresponding origin server and the actual size of said Internet resource when said actual size is  
4 available.

1                   5. (Unchanged) The method according to claim 4, wherein said estimated round  
2 trip time for each Internet resource is based on average access time statistics for the  
3 corresponding origin server and the average size of Internet resources provided by said origin  
4 server if said origin server does not indicate said actual size.

1                   6. (Unchanged) The method according to claim 4, wherein said estimated round  
2 trip time for each Internet resource is based on average access time statistics for the  
3 corresponding origin server and the average size of Internet resources provided by said origin  
4 server if the setup and wait time for accessing said origin server is not significantly less than the  
5 average round trip time for Internet resources obtained from said origin server.

1                   7. (Unchanged) The method according to claim 1, wherein said estimated round  
2 trip time is based on at least one actual prior round trip time for said Internet resource.

1                   8. (Unchanged) The method according to claim 1, wherein said step of  
2 prefetching said Internet resources does not begin until said one or more Web pages have been

3 fetched.

1 9. (Unchanged) The method according to claim 1, wherein said step of  
2 prefetching said Internet resources continues until said Internet resources have been prefetched or  
3 until a user selects a new Web page.

1 10. (Unchanged) The method according to claim 1, further comprising the steps of  
2 storing said Internet resources in a cache and determining if any of said Internet resources are  
3 already stored in said cache before prefetching begins.

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1 11. (Unchanged) The method according to claim 1, further comprising the step of  
2 applying a filter to said Internet resources to reduce the overhead on network, server or local  
3 resources due to prefetching.

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1 12. (Unchanged) The method according to claim 11, wherein said filter discards  
2 all Internet resources that do not use the HTTP protocol for transmission.

1 13. (Unchanged) The method according to claim 11, wherein said filter discards  
2 all Internet resources that corresponding to dynamically generated Web resources.

1 14. (Unchanged) The method according to claim 11, wherein said filter discards  
2 all Internet resources that correspond to resources whose size is more than a certain maximum  
3 size threshold.

1 15. (Unchanged) The method according to claim 11, wherein said filter discards  
2 all Internet resources that correspond to resources whose estimated round trip time is longer than  
3 a certain maximum time.

1 16. (Unchanged) The method according to claim 11, wherein said filter discards  
2 all Internet resources that correspond to resources whose estimated round trip time is shorter than

3 a certain minimum time threshold.

1 17. (Amended) A method of prefetching one or more Internet resources referenced  
2 in one or more Web pages, said method comprising the steps of:

3 determining an estimated round trip time for said Internet resources based on an  
4 interval of time between a sending of an HTTP request and a receipt of a response to said HTTP  
5 request;

6 sorting a list of said Internet resources based on said estimated round trip time;

7 prefetching said sorted list of Internet resources until one or more predefined

8 threshold conditions are met.

1 18. (Unchanged) The method according to claim 17, wherein two or more of said  
2 Internet resources are prefetched substantially in parallel.

1 19. (Unchanged) The method according to claim 17, wherein said step of  
2 prefetching said Internet resources based on said estimated round trip time is performed only for  
3 resources associated with origin servers that have been previously accessed and said method  
4 further comprising the step of prefetching all resources associated with servers that have not been  
5 previously accessed.

1 20. (Unchanged) The method according to claim 17, wherein said estimated round  
2 trip time for each Internet resource is based on average access time statistics for the  
3 corresponding origin server and the actual size of said Internet resource when said actual size is  
4 available.

1 21. (Unchanged) The method according to claim 20, wherein said estimated round  
2 trip time for each Internet resource is based on average access time statistics for the  
3 corresponding origin server and the average size of Internet resources provided by said origin  
4 server if said origin server does not indicate said actual size.

1 22. (Unchanged) The method according to claim 20, wherein said estimated round  
2 trip time for each Internet resource is based on average access time statistics for the  
3 corresponding origin server and the average size of Internet resources provided by said origin  
4 server if the setup and wait time for accessing said origin server is not significantly less than the  
5 average round trip time for Internet resources obtained from said origin server.

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Sub 23. (Unchanged) The method according to claim 20, further comprising the step  
B) of applying a filter to said Internet resources to reduce the overhead on network, server or local  
resources due to prefetching.

1 24. (Unchanged) The method according to claim 23, wherein said filter discards  
2 all Internet resources selected from the set comprised substantially of those Internet resources  
3 that (i) do not use the HTTP protocol for transmission; (ii) correspond to dynamically generated  
4 Web resources; (iii) correspond to resources whose size is more than a certain maximum size  
5 threshold, (iv) correspond to resources whose estimated round trip time is longer than a certain  
6 maximum time, or (v) correspond to resources whose estimated round trip time is shorter than a  
7 certain minimum time threshold.

1 25. (Amended) A system for prefetching one or more Internet resources  
2 referenced in one or more Web pages, each of said Internet resources having an associated origin  
3 server, said tool comprising:  
4 a memory for storing a server statistics database that records access time statistics  
5 for each origin server that has been previously accessed;  
6 a processor operatively coupled to said memory, said processor configured to:  
7 obtain an estimated round trip time for said Internet resources, wherein said  
8 estimated round trip time is based on an interval of time between a sending of an HTTP request  
9 and a receipt of a response to said HTTP request; and  
10 prefetch said Internet resources based on said estimated round trip time.

1           26. (Unchanged) The system according to claim 25, wherein said server statistics  
2 database records the average setup, wait and byte transmission times and average resource size  
3 for said Internet resources obtained from said corresponding origin server.

1           27. (Amended) A method of prefetching one or more Internet resources referenced  
2 in one or more Web pages, said method comprising the steps of:

3           determining if one or more of said Internet resources are candidates for  
4 prefetching based on an estimated round trip time, wherein said estimated round trip time is  
5 based on an interval of time between a sending of an HTTP request and a receipt of a response to  
6 said HTTP request; and

7           prefetching said Internet resources that are determined to be candidates for  
8 prefetching.

1           28. (Amended) An article of manufacture for prefetching one or more Internet  
2 resources referenced in one or more Web pages, said article of manufacture comprising:

3           a computer readable medium having computer readable program code means  
4 embodied thereon, said computer readable program code means comprising program code means for  
5 causing a computer to:

6           obtain an estimated round trip time for said Internet resources, wherein said  
7 estimated round trip time is based on an interval of time between a sending of an HTTP request  
8 and a receipt of a response to said HTTP request; and

9           prefetch said Internet resources based on said estimated round trip time.

1           29. (Amended) A method of prefetching one or more Internet resources referenced  
2 in one or more Web pages, said method comprising the steps of:

3           obtaining an estimated round trip time for said Internet resources, wherein said  
4 estimated round trip time is based on an interval of time between a sending of an HTTP request  
5 and a receipt of a response to said HTTP request;

6           identifying a subset of said Internet resources that are candidates for prefetching  
7 based on said estimated round trip time; and